

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 April 2003 (17.04.2003)

PCT

(10) International Publication Number
WO 2003/032011 A3

Best Available Copy

(51) International Patent Classification⁷: **G01V 3/08**

(21) International Application Number:
PCT/US2002/032720

(22) International Filing Date: 10 October 2002 (10.10.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/328,691 10 October 2001 (10.10.2001) US
60/328,836 11 October 2001 (11.10.2001) US

(71) Applicant: **RANGER SECURITY DETECTORS INC.**
[US/US]; 1001 Carnegie Street, El Paso, TX 79925 (US).

(72) Inventors: **TURNER, John, E.**; 11900 Montana, El Paso, TX 79936 (US). **TURNER, Brian, J.**; 520 Marthmont, El Paso, TX 79912 (US). **BURK, Les, R.**; 1919 Montana, El Paso, TX 79912 (US).

(74) Agent: **BORCHERS, William, R.**; Baker Botts L.L.P., 2001 Ross Avenue, Suite 600, Dallas, TX 75201-2980 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

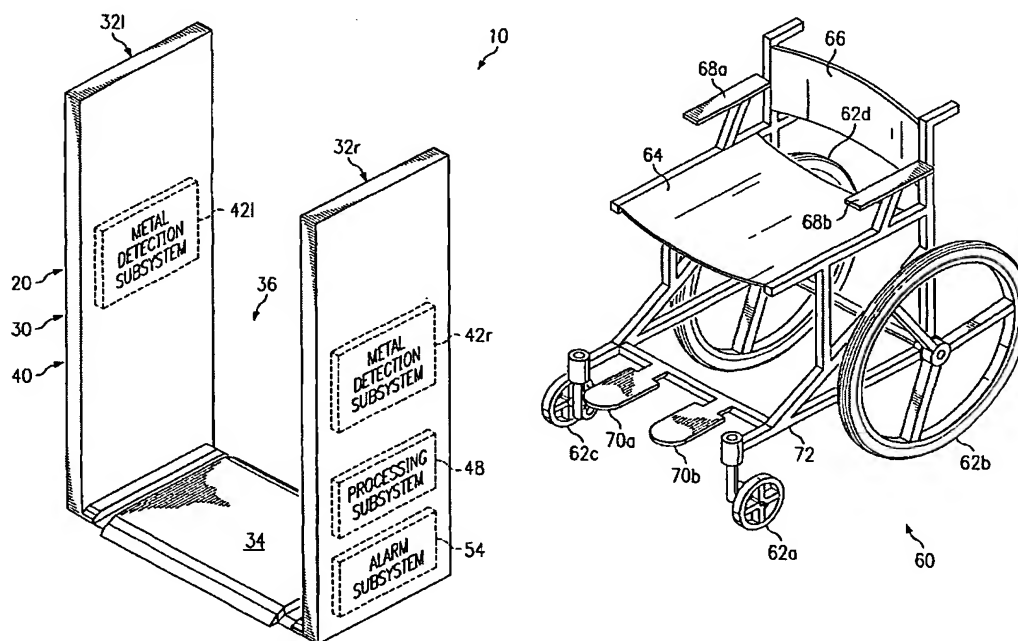
Published:

— with international search report

(88) Date of publication of the international search report:
11 March 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **SYSTEM AND METHOD FOR SCANNING INDIVIDUALS FOR ILLICIT OBJECTS**



(57) Abstract: A system (10) and method for scanning individuals for illicit objects includes the ability to scan a wheeled user transport device (60) and an individual being transported thereby for metallic objects and to determine whether an illicit object may be present, without activating an alarm for the user transport device (60) while detecting illicit objects on the individual.

WO 2003/032011 A3

INTERNATIONAL SEARCH REPORT

International Application No

PCT/03 02/32720

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01V3/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01V

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|---|
| X | US 4 384 281 A (COOPER MICHAEL N) 17 May 1983 (1983-05-17) column 4, line 25 - line 68 column 9, line 1 - line 17 --- | 1-3,11, 19,22, 24-26, 30,36, 37,42,47 |
| X | US 5 790 685 A (SALLEE BRADLEY T) 4 August 1998 (1998-08-04) column 3, line 40 - column 4, line 51 column 7, line 4 - line 9 ----- | 1-5,11, 19, 22-26, 30,31, 36,37, 41-43, 47,48 |

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another, citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

28 January 2003

Date of mailing of the international search report

12.04.03

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Häusser, T

INTERNATIONAL SEARCH REPORT

International application No.
CT/US 02/32720

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-15, 11, 19, 22-26, 30, 31, 36, 37, 41-43, 47, 48

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

Best Available Copy

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-5,11,19,22-26,30,31,36,37,41-43,47,48

Scanning system for illicit objects using a plurality of magnetic field detectors

2. Claims: 1,6,9-11,16-18,25,27,28,36,38,39,47,49,50,55

Scanning system for illicit objects applicable to a wheelchair

3. Claims: 1,7,8,11-15,25,32-34,36,44-47, 51-53

Scanning system for illicit objects using a guide set

4. Claims: 19-21,25,29,35,36,40,47,54

Scanning system for illicit objects using a threshold criterion

INTERNATIONAL SEARCH REPORT

ation on patent family members

International Application No

PCT/US 02/32720

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---------------------|----------------------------|---------------------|
| US 4384281 A | 17-05-1983 | AU 539605 B | 04-10-1984 |
| | | AU 7621081 A | 06-05-1982 |
| | | BE 890920 A | 29-04-1982 |
| | | CA 1168727 A | 05-06-1984 |
| | | DE 3143002 A | 19-05-1982 |
| | | FR 2493531 A | 07-05-1982 |
| | | GB 2087197 A,B | 19-05-1982 |
| | | GB 2101454 A,B | 12-01-1983 |
| | | GB 2101455 A,B | 12-01-1983 |
| | | GB 2101456 A,B | 12-01-1983 |
| | | IT 1142894 B | 15-10-1986 |
| | | JP 57134789 A | 20-08-1982 |
| | | NL 8104644 A | 17-05-1982 |
| | | SE 8106399 A | 01-05-1982 |
| | | ZA 8106599 A | 23-02-1983 |
| ----- | | | |
| US 5790685 A | 04-08-1998 | AU 6403096 A | 30-01-1997 |
| | | WO 9701771 A | 16-01-1997 |
| ----- | | | |

Best Available Copy

THIS PAGE BLANK (USPTO)